ini ...al Application No PCT/GB2004/002994

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K47/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, CHEM ABS Data

Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Κ	WILBUR D SCOTT ET AL: "Monoclonal antibody Fab' fragment cross-linking using equilibrium transfer alkylation reagents. A strategy for site-specific conjugation of diagnostic and therapeutic agents with F(ab')-2 fragments" BIOCONJUGATE CHEMISTRY, vol. 5, no. 3, 1994, pages 220-235, XP002313937 ISSN: 1043-1802 Fig .1; Fig .2, compounds 5a,b	1-14
	-/	

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the International filling date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filling date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 19 January 2005	Date of mailing of the International search report 31/01/2005
Name and mailing address of the ISA	
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswljk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Lopez García, F

Int 1al Application No
PCT/GB2004/002994

		PCT/GB2004/002994
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	ROBERTS M J ET AL: "Chemistry for peptide and protein PEGylation" ADVANCED DRUG DELIVERY REVIEWS, AMSTERDAM, NL,	1-14
	vol. 54, no. 4, 17 June 2002 (2002-06-17), pages 459-476, XP002293146 ISSN: 0169-409X Figures 1, 6, 14(2)	
Y	DEL ROSARIO R B ET AL: "SULFHYDRYL SITE-SPECIFIC CROSS-LINKING AND LABELING OF MONOCLONAL ANTIBODIES BY A FLUORESCENT EQUILIBRIUM TRANSFER ALKYLATION CROSS-LINK REAGENT" BIOCONJUGATE CHEMISTRY, vol. 1, no. 1, 1990, pages 51-59, XP002313938 ISSN: 1043-1802 Fig.1; Scheme 1.	1-14
Υ	LIBERATORE F A ET AL: "SITE-DIRECTED CHEMICAL MODIFICATION AND CROSS-LINKING OF A MONOCLONAL ANTIBODY USING EQUILIBRIUM TRANSFER ALKYLATING CROSS-LINK REAGENTS" BIOCONJUGATE CHEMISTRY, vol. 1, no. 1, 1990, pages 36-50,	1-14
	XP002313939 ISSN: 1043-1802 Scheme II, compounds 12-15; Scheme III.	
Υ	BROCCHINI ET AL.: "Molecular yardsticks. Synthesis of extended equilibrium transfer alkylating cross-link reagents and their use in the formation of macrocycles" JOURNAL OR THE AMERICAN CHEMICAL SOCIETY, vol. 110, 1988, pages 5211-5212, XP002313940 Scheme I; Scheme II, compounds 12-17 and 32.	1-14
A	WO 99/45964 A (SHEARWATER POLYMERS INC; HARRIS J MILTON (US); KOZLOWSKI ANTONI (US)) 16 September 1999 (1999-09-16) Abstract; p. 1, 1. 11-15; p. 3, 1. 18-19; p. 5, 1. 1; p. 12, 1. 26-p. 13, 1. 2; examples; claims 14-20	1-14
A	WO 01/05818 A (KUHNIL PHARM CO LTD; CHOI JANG SIK (KR); YOON JONG BAE (KR); LEE HYUK) 25 January 2001 (2001-01-25) claim 1.	1-7,13, 14
A	US 2002/103259 A1 (GREENWALD RICHARD B ET AL) 1 August 2002 (2002-08-01) compounds 26, 28, 29, 31, 38, 39.	1-6, 10-14
	-/	

In 1al Application No PCT/GB2004/002994

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Ficiological to digitif No.
A	US 5 786 387 A (ANDO TAKASHI ET AL) 28 July 1998 (1998-07-28) col. 1, 1. 10-11; col. 2, 1. 30-63; examples 1-6	1-6,13, 14
A	WO 99/55377 A (APPLIED RESEARCH SYSTEMS; ROBERTS MICHAEL J (US); HARRIS MILTON (US);) 4 November 1999 (1999-11-04) Abstract; p. 18, l. 30-p. 19, l. 17.	1-14

Inte onal Application No PCT/GB2004/002994

Do.	tent document		Publication			004/002994
	tent document in search report		date		Patent family member(s)	Publication date
WO	9945964	Α	16-09-1999 AT		268609 T	15-06-2004
				ΑÜ	2903899 A	27-09-1999
				CA	2323048 A1	16-09-1999
				DE	69917889 D1	15-07-2004
				ĒΡ	1411075 A2	21-04-2004
				ĒΡ	1061954 A1	27-12-2000
				JР	2002506087 T	26-02-2002
				WO	9945964 A1	16-09-1999
				ÜS	2001011115 A1	02-08-2001
				ÜS	2004059025 A1	25-03-2004
				ÜS	2002040076 A1	04-04-2002
				ÜS	2002037949 A1	28-03-2002
				US	2002052430 A1	02-05-2002
	0105010					
MO	0105818	Α	25-01-2001	MO	0105819 A1	25-01-2001
				AU	4934299 A	05-02-2001
				AU	5713500 A	05-02-2001
				WO	0105818 A1	25-01-2001
US	2002103259	A1	01-08-2002	US	6395266 B1	28-05-2002
				US	6153655 A	28-11-2000
				US	2004053976 A1	18-03-2004
				ΑÜ	3648399 A	08-11-1999
				CA	2328922 A1	28-10-1999
				EP	1071455 A1	31-01-2001
				JР	2002512265 T	23-04-2002
				WO	9953951 A1	28-10-1999
US	5786387	Α	28-07-1998	WO	9525764 A1	28-09-1995
WO	9955377	Α	04-11-1999	AT	275422 T	15-09-2004
_				AU	762621 B2	03-07-2003
				AU	3767499 A	16-11-1999
				BG	104871 A	31-07-2001
				BR	9910023 A	26-12-2000
				CA	2330451 A1	04-11-1999
				CN	1302209 T	04-07-2001
				DE	69920002 D1	14-10-2004
				EA	3789 B1	30-10-2003
				EE	200000614 A	15-04-2002
						26-05-2007
				EP	1421956 A1	
				EP EP	1421956 A1 1075281 A2	26-05-2004 14-02-2001 28-06-2001
				EP Ep Hu	1421956 A1 1075281 A2 0300548 A2	14-02-2001 28-06-2003
				EP EP HU JP	1421956 A1 1075281 A2 0300548 A2 2002512983 T	14-02-2001 28-06-2003 08-05-2002
				EP EP HU JP NO	1421956 A1 1075281 A2 0300548 A2 2002512983 T 20005337 A	14-02-2003 28-06-2003 08-05-2003 28-12-2000
				EP EP HU JP NO NZ	1421956 A1 1075281 A2 0300548 A2 2002512983 T 20005337 A 507456 A	14-02-2001 28-06-2003 08-05-2003 28-12-2000 31-10-2003
				EP EP HU JP NO NZ PL	1421956 A1 1075281 A2 0300548 A2 2002512983 T 20005337 A 507456 A 344490 A1	14-02-2001 28-06-2003 08-05-2003 28-12-2003 31-10-2003 05-11-2003
				EP EP HU JP NO NZ PL SK	1421956 A1 1075281 A2 0300548 A2 2002512983 T 20005337 A 507456 A 344490 A1 16222000 A3	14-02-2003 28-06-2003 08-05-2003 28-12-2003 31-10-2003 05-11-2003 09-04-2003
				EP EP HU JP NO NZ PL SK TR	1421956 A1 1075281 A2 0300548 A2 2002512983 T 20005337 A 507456 A 344490 A1 16222000 A3 200003161 T2	14-02-2003 28-06-2003 08-05-2003 28-12-2003 31-10-2003 05-11-2003 09-04-2003 22-01-2003
				EP EP HU JP NO NZ PL SK TR TR	1421956 A1 1075281 A2 0300548 A2 2002512983 T 20005337 A 507456 A 344490 A1 16222000 A3 200003161 T2 200101751 T2	14-02-2001 28-06-2003 08-05-2003 28-12-2000 31-10-2003 05-11-2003 09-04-2003 22-01-2003 21-05-2003
				EP EP HU JP NO NZ PL SK TR WO	1421956 A1 1075281 A2 0300548 A2 2002512983 T 20005337 A 507456 A 344490 A1 16222000 A3 200003161 T2 200101751 T2 9955377 A2	14-02-2003 28-06-2003 08-05-2003 28-12-2003 31-10-2003 05-11-2003 09-04-2003 22-01-2003 21-05-2003 04-11-1993
				EP EP HU JP NO NZ PL SK TR TR	1421956 A1 1075281 A2 0300548 A2 2002512983 T 20005337 A 507456 A 344490 A1 16222000 A3 200003161 T2 200101751 T2	14-02-200; 28-06-200; 08-05-200; 28-12-200; 31-10-200; 05-11-200; 09-04-200; 22-01-200; 21-05-200;